

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.11/VMK/CEMENT/2014-15



Date: 19.05.2014

TEST REPORT

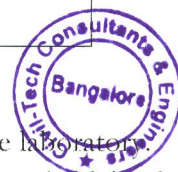
CLIENT	:	Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	Mr. V. Mohan Kumar, Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to CC roads construction of culverts in Singapura village near Auto Santhosh Kumar House road in Ward No.11 Kuvempunagara, Vidyaranyapura Sub Division , BBMP, Bangalore.
REFERENCE	:	AEE/VP/(WO)/03/2014-15 Dated: 19.05.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	27.00 %	-

Note:

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Job No.: CTCE/BBMP/W.No.11/VMK/SAND/2014-15



: 19.05.2014

TEST REPORT ON FINE AGGREGATES (SAND) IS 383-1970 (RA- 2002)

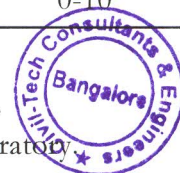
Client : Asst. Executive Engineer, Vidharanyapura Sub Division, BBMP, Bangalore.
Agency : Mr. V. Mohan Kumar, Contractor, Bangalore.
Name of Work : Improvements to CC roads construction of culverts in Singapura village near Auto Santhosh Kumar House road in Ward No.11 Kuvempunagara, Vidharanyapura Sub Division, BBMP, Bangalore.
Reference : AEE/VP/(WO)/03/2014-15 Dated: 19.05.2014
Date of Testing : 19.05.2014
Material : Sand

Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	97	4.85	4.85	95.2	90-100
2.36	206	10.30	15.15	84.9	75-100
1.18	485	24.25	39.40	60.6	55-90
600 Micron	430	21.50	60.90	39.1	35-59
300 Micron	498	24.90	85.80	14.2	8-30
150 Micron	226	11.30	97.10	2.9	0-10

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Job No.: CTCE/BBMP/W.No.11/VMK/AGG/2014-15



: 19.05.2014

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency : Mr. V. Mohan Kumar, Contractor, Bangalore.
Name of Work : Improvements to CC roads construction of culverts in Singapura village near Auto Santhosh Kumar House road in Ward No.11 Kuvempunagara, Vidyaranyapura Sub Division , BBMP, Bangalore.
Reference : AEE/VP/(WO)/03/2014-15 Dated: 19.05.2014
Date of Testing : 19.05.2014
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25100**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	990	3.94	3.94	96.06	95-100
20	16275	64.84	68.78	31.22	30-70
10	5063	20.17	88.96	11.04	10-35
4.75	2490	9.92	98.88	1.12	0-5

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(Signature)
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Job No.: CTCE/BBMP/W.No.11/VMK/STEEL/2013-14

19.05.2014

TEST REPORT ON REINFORCEMENT STEEL

Client : **Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. V. Mohan Kumar**, Contractor, Bangalore.

Name of the work : Improvements to CC roads construction of culverts in Singapura village near Auto Santhosh Kumar House road in Ward No.11 Kuvempunagara, Vidyaranyapura Sub Division , BBMP, Bangalore.

Reference : AEE/VP/(WO)/03/2014-15 Dated: 19.05.2014

Date of Test : 19.05.2014

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	12	0.89	515	548	13.30	O.K	O.K

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Job No.: CTCE/BBMP/W.No.11/VMK/CUBE/2014-15



30.05.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. V. Mohan Kumar**, Contractor, Bangalore.

Name of the work : Improvements to CC roads construction of culverts in Singapura village near Auto Santhosh Kumar House road in Ward No.11 Kuvempunagara, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VP/(WO)/03/2014-15 Dated: 19.05.2014

Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

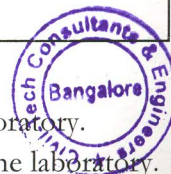
Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	23.05.2014	30.05.2014	8.425	347.8	15.46
2	23.05.2014	30.05.2014	8.368	352.4	15.66
3	23.05.2014	30.05.2014	8.278	329.6	14.65

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